

Abstract

This invention provides a prosthetic acetabular component that comprises two constructs, one being a metal base construct that engages the bone and the other being a polyethylene bearing construct that attaches to the metal base construct and articulates with a femoral stem prosthetic component. The metal base construct is composed of two different metals, one of which engages the bone surface and the other of which engages the polyethylene bearing construct. Each of these metals is selected so that its characteristics are well suited to its particular function. The first metal is selected so as to provide a superior bone-engaging face, while the second metal is selected so as to provide a superior polyethylene-engaging face. By combining the different material characteristics of two different metals in the metal bone construct, it is possible to simultaneously form a superior bone-engaging face and a superior polyethylene-engaging face.